Europäisches Patentamt
European Patent Office
Office européen des brevets

SUPPLEMENTARY EUROPEAN SEARCH REPORT

Application Number
EP 15 84 4234

DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (IPC)
L	EP 3 199 559 A1 (NITTO DENKO CORP [JP]; NAT INST ADVANCED IND SCIENCE & TECH [JP]) 2 August 2017 (2017-08-02) * claims 1-3 * * paragraph [0069] - paragraph [0082] * * L: double patenting * -----	1-5	INV. B01J20/32 B01J20/34 C22B59/00 C22B3/24 B01D15/00 C22B7/00
X	Ilaiyaraja P. et al: "International Nuclear Information System Diglycolamic acid functionalized PAMAM-SDB chelating resin for removal of Th(IV) from aqueous and nitric acid medium", Board of Research in Nuclear Sciences, Department of Atomic Energy, Mumbai (India); 281 p; 2014; p. 47; SESTEC-2014: DAE-BRNS biennial symposium on emerging trends in separation science and technology; Mumbai (India), 1 February 2014 (2014-02-01), pages 25-28, XP055468146, India Retrieved from the Internet: URL:https://inis.iaea.org/search/search.aspx?orig_q=RN:45077617 [retrieved on 2018-04-18] * the whole document * -----	1-5	
Y	US 2004/062695 A1 (HORWITZ E PHILIP [US] ET AL) 1 April 2004 (2004-04-01) * claims 1-5,12, 16-21 * ----- -/--	1-5	

TECHNICAL FIELDS SEARCHED (IPC)
B01J
C22B

The supplementary search report has been based on the last set of claims valid and available at the start of the search.

Place of search	Date of completion of the search	Examiner
The Hague	18 April 2018	Kaluza, Nicoleta

CATEGORY OF CITED DOCUMENTS

X : particularly relevant if taken alone
Y : particularly relevant if combined with another document of the same category
A : technological background
O : non-written disclosure
P : intermediate document

T : theory or principle underlying the invention
E : earlier patent document, but published on, or after the filing date
D : document cited in the application
L : document cited for other reasons

& : member of the same patent family, corresponding document

2

EPO FORM 1503 03.82 (P04C04)

Europäisches Patentamt
European Patent Office
Office européen des brevets

SUPPLEMENTARY EUROPEAN SEARCH REPORT

Application Number
EP 15 84 4234

DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (IPC)
Y	TAKESHI OGATA ET AL: "Immobilization of Diglycol Amic Acid on Silica Gel for Selective Recovery of Rare Earth Elements", CHEMISTRY LETTERS, vol. 43, no. 9, 5 September 2014 (2014-09-05), pages 1414-1416, XP055419969, JAPAN ISSN: 0366-7022, DOI: 10.1246/cl.140446 * abstract * * page 1414, right-hand column * * Schema 1 * -----	1-5	

TECHNICAL FIELDS SEARCHED (IPC)

The supplementary search report has been based on the last set of claims valid and available at the start of the search.

Place of search	Date of completion of the search	Examiner
The Hague	18 April 2018	Kaluza, Nicoleta

CATEGORY OF CITED DOCUMENTS

X : particularly relevant if taken alone
Y : particularly relevant if combined with another document of the same category
A : technological background
O : non-written disclosure
P : intermediate document

T : theory or principle underlying the invention
E : earlier patent document, but published on, or after the filing date
D : document cited in the application
L : document cited for other reasons

& : member of the same patent family, corresponding document

2

EPO FORM 1503 03.82 (P04C04)

ANNEX TO THE EUROPEAN SEARCH REPORT ON EUROPEAN PATENT APPLICATION NO. EP 15 84 4234

This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report. The members are as contained in the European Patent Office EDP file on
The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

18-04-2018

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
EP 3199559 A1	02-08-2017	CN 107001513 A	01-08-2017
		EP 3199559 A1	02-08-2017
		JP 2016065134 A	28-04-2016
		WO 2016047705 A1	31-03-2016
US 2004062695 A1	01-04-2004	US 2004062695 A1	01-04-2004
		US 2007131618 A1	14-06-2007
		US 2007163957 A1	19-07-2007